

# Controlling Temperatures with the Electronic Temperature Controllers MTR



Electronic Temperature Controller MTR

The temperature controllers MTR 1000/2000/3000 are designed specially for the rough operating conditions in surface treatment plants; their front panel is covered with a sheet of polyethylene, which is insensitive to chemicals.

The relatively small dimensions permit installation on control panels or, with the aid of a casing, close to the tank, even when space is at a premium. Easy operation and the clear, 7-segment-LED display guarantee problem-free use. The cables are connected with the aid of plug-in terminals.

The parameters of the temperature controller are easily set with the buttons on the front panel. Amongst other things, the following parameters can be set: hysteresis of the switching contact, correction of the actual value, setpoint limiting, alarm limit value.

In order to ensure the best possible safety, the connected temperature sensor is monitored for breakage or a short-circuit of the sensor element. In the case of a fault, the heater is switched off.

The controller MTR 1000 has a logic input. This input can be used to switch to a lower temperature at night.



MTR 1000 with casing

	MTR 1000	MTR 2000	MTR 3000
Number of setpoints	1	2	2
Output contacts	1 changeover	2 changeovers	3 NO contacts
Max. switched voltage	250V~	250V~	250V~
Max. switched current	10A	8A+8A	8A+8A+6A
Max. switched power	2 kW	1,5kW+1,5kW	1,5kW+1,5kW+1 kW

## Technical data

Front dimensions	84x42 mm
Installation depth	approx. 85 mm
Panel cut-out	67,5x31,5 mm
Degree of protection (front)	IP 65 (to EN 60529)
Degree of protection (rear)	IP 00 (to EN 60529)
Ambient temperature	0...55°C
Max. relative humidity	0...75% (no condensation)
Supply voltage	230V~ (+10%/-15%), 50...60 Hz
Power consumption	max. 4VA
Measuring input	Pt 100 with 3-wire connection
Measuring range	-60,0...400°C
Measuring accuracy	0,5K±0,5% of measuring range

